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(54) **SYSTEM AND METHOD FOR TRACKING VEHICLES IN PARKING STRUCTURES AND INTERSECTIONS**

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(57) **ABSTRACT**

A dynamic signal to noise ratio tracking system enables detection of vehicles within the field of view of the tracking system. The tracking system may include an emitter configured to emit electromagnetic radiation within an area, a detector configured to detect electromagnetic radiation reflected back from vehicles within the area, and a control unit configured to evaluate signals from the detector and control various automated devices as a result of this evaluation.